



1 WHAT IS CLAIMED IS:

2 1. ((First Amended)) (CURRENTLY AMENDED) A method
3 for fabrication of an enclosure device for a preselected
4 set of speaker drivers, said enclosure having any
5 preselected external shape and including internal cavities
6 and channels formed to enhance the ability of said drivers
7 to reproduce sound with preselected characteristics, the
8 method comprising the steps of:

9 selecting said external shape and forming an
10 outline of an external circumferential edge to create a
11 base template;

12 placing an the outline of the internal
13 circumferential edges of said drivers within said external
14 circumferential edge outline of said base template;

15 placing a plurality of guide holes within said
16 internal circumferential edge;

17 calculating a volume for driver chambers and
18 supporting ports;

19 selecting a number of said base templates
20 required to produce a desired volume of chambers and ports;

21 outlining said internal circumferential edges of
22 said drivers and said guide holes on each of said base
23 templates whereby said base template external on one end
24 has openings into which said preselected drivers may be
25 mounted, said base template external on the opposing side
26 terminates the driver chambers and said base templates
27 spaced (space) apart said external opposing base templates
28 thereby creating the desired chamber volume and ports;

29 outlining the circumferential edges of internal
30 supports to strengthen and stabilize said enclosure, the
31 placement of said internal supports being selected whereby
32 said drivers may be fully inserted within said enclosure
33 without being limited by said supports;

1 applying each template outline of external
2 circumferential edges and internal circumferential edges to
3 preselected sheet stock;
4 cutting each layer of sheet stock along said
5 circumferential edges;
6 calculating the desired characteristics of a (the)
7 supporting crossover network for said drivers;
8 fabricating said crossover network with said
9 characteristics and terminating said network with
10 connectors for each driver and for externally applied user
11 supplied input;
12 mounting said crossover network to a selected
13 layer whereby said driver connectors are internally
14 accessible to attach to said drivers upon the condition of
15 said drivers mounted within said enclosure and said
16 externally applied user supplied input is externally
17 accessible;
18 inserting a reinforcing rod having threaded ends
19 within each guide hole of an external layer;
20 applying adhesive to at least one side of each
21 adjacent layer between said external layer and inside of
22 opposing external layer;
23 assembling layers in preselected order by inserting
24 said reinforcing rods through each successive layer
25 terminating with said opposing external layer;
26 applying a nut to each said threaded ends of said
27 reinforcing rods and tightening each of said nuts thereby
28 compressing said layers without deforming said layers or
29 distorting the sound reproduction characteristics of said
30 enclosure;
31 mounting said selected drivers within said enclosure,
32 attaching the terminals of each driver to the corresponding
33 internal connections of said crossover network;

1 applying a preselected veneer to the external
2 surface of said assembled enclosure; and,
3 applying a speaker cloth layer over said speaker
4 drivers.

5

6

7

8

9 2. (ORIGINAL) The method of claim 1 further
10 comprising the steps of:

11 testing said assembled templates for sound
12 reproduction characteristics; and,

13 adjusting selected circumferential edges to
14 create desired response of enclosure and drivers.

15

1 WHAT IS CLAIMED IS:

2 1. (CURRENTLY AMENDED) A method for fabrication
3 of an enclosure device for a preselected set of speaker
4 drivers, said enclosure having any preselected external
5 shape and including internal cavities and channels formed
6 to enhance the ability of said drivers to reproduce sound
7 with preselected characteristics, the method comprising the
8 steps of:

9 selecting said external shape and forming an
10 outline of an external circumferential edge to create a
11 base template;

12 placing an the outline of the internal
13 circumferential edges of said drivers within said external
14 circumferential edge outline of said base template;

15 placing a plurality of guide holes within said
16 internal circumferential edge;

17 calculating a volume for driver chambers and
18 supporting ports;

19 selecting a number of said base templates
20 required to produce a desired volume of chambers and ports;

21 outlining said internal circumferential edges of
22 said drivers and said guide holes on each of said base
23 templates whereby said base template external on one end
24 has openings into which said preselected drivers may be
25 mounted, said base template external on the opposing side
26 terminates the driver chambers and said base templates
27 spaced (space) apart said external opposing base templates
28 thereby creating the desired chamber volume and ports;

29 outlining the circumferential edges of internal
30 supports to strengthen and stabilize said enclosure, the
31 placement of said internal supports being selected whereby
32 said drivers may be fully inserted within said enclosure
33 without being limited by said supports;

1 applying each template outline of external
2 circumferential edges and internal circumferential edges to
3 preselected sheet stock;
4 cutting each layer of sheet stock along said
5 circumferential edges;
6 calculating the desired characteristics of a (the)
7 supporting crossover network for said drivers;
8 fabricating said crossover network with said
9 characteristics and terminating said network with
10 connectors for each driver and for externally applied user
11 supplied input;
12 mounting said crossover network to a selected
13 layer whereby said driver connectors are internally
14 accessible to attach to said drivers upon the condition of
15 said drivers mounted within said enclosure and said
16 externally applied user supplied input is externally
17 accessible;
18 inserting a reinforcing rod having threaded ends
19 within each guide hole of an external layer;
20 applying adhesive to at least one side of each
21 adjacent layer between said external layer and inside of
22 opposing external layer;
23 assembling layers in preselected order by inserting
24 said reinforcing rods through each successive layer
25 terminating with said opposing external layer;
26 applying a nut to each said threaded ends of said
27 reinforcing rods and tightening each of said nuts thereby
28 compressing said layers without deforming said layers or
29 distorting the sound reproduction characteristics of said
30 enclosure;
31 mounting said selected drivers within said enclosure,
32 attaching the terminals of each driver to the corresponding
33 internal connections of said crossover network;

1 applying a preselected veneer to the external
2 surface of said assembled enclosure; and,
3 applying a speaker cloth layer over said speaker
4 drivers.

5

6

7

8

9 2. (ORIGINAL) The method of claim 1 further
10 comprising the steps of:

11 testing said assembled templates for sound
12 reproduction characteristics; and,

13 adjusting selected circumferential edges to
14 create desired response of enclosure and drivers.

15